Golden Valley RanchAquifer Protection Permit Application

Rhodes Homes Arizona, Inc. Kingman, Arizona

February 1, 2006



A Stanley Group Company Engineering, Environmental and Construction Services - Worldwide



A Stanley Group Company Engineering, Environmental and Construction Services - Worldwide

February 1, 2006

Mr. Asif Majeed Arizona Department of Environmental Quality 1110 W. Washington Street Phoenix, Az. 85007

Re: Golden Valley Ranch Interim WWTP APP Application – Transmittal Letter

Dear Mr. Majeed:

On behalf of Rhodes Homes Arizona (Rhodes), Stanley Consultants, Inc. (Stanley) is pleased to submit the Aquifer Protection Permit Application (APP) for the Golden Valley Ranch Interim Wastewater Treatment Plant near Kingman, Arizona. This APP has been completed in compliance with instructions provided on the application form and from information provided to Stanley by ADEQ during the pre-application meeting (headed by Mr. Matthew Hodge and Miss Sujana Attaluri) for this plant, which was held on November 30, 2005.

Please note that the letter from the CFO of Rhodes Homes is not included in this package. This letter will arrive under separate cover once Stanley receives it.

If you have any questions, please call me at 602-333-2364. Thank you for your attention.

Sincerely,

STANLEY CONSULTANTS, INC.

EMME E. D. Francisco

Bruce E. DiFrancisco, PE

Project Manager

cc: Denis Atwood, Stanley Consultants

Miss Sujana Attaluri, ADEQ

Kirk Brynjulson, Rhodes Homes Arizona

APP Application Form
Exhibit A – Legal Description (Per Item 8)
Exhibit B – Zoning Map (Per Item 16)
Exhibit C – Topographic and Vicinity Map (Per Item 17)
Exhibit D – Site Plan (Per Item 17)
Exhibit E – Design Report (Per Item 17)
Exhibit F – Summary of Discharge Activities (Per Item 17)
Exhibit G – BADCT Statement (Per Item 17)
Exhibit H – AWQS, Ambient Groundwater and DIA Statement (Per Item 17)
Exhibit I – Contingency Plan (Per Item 17)
Exhibit J – Hydrogeologic Report Statement (Per Item 17)
Exhibit K – Monitoring, Closure and Post-Closure Plans (Per Item 17)
Exhibit L – Construction Cost Opinion (Per Item 19)
Exhibit M – Operations and Maintenance Cost Opinion (Per Item 19)
Exhibit N – Closure and Post-Closure Cost Opinion (Per Item 19)
Exhibit O - Certificate of Conformance with Mohave County 208 Plan (Per Item 20)
Exhibit P – Financial Capability Demonstration Information (Per Item 23)
Exhibit Q – Qualifications of Design Engineer (Per Item 26)
Exhibit R — Qualifications of System Operator (Per Item 26)



INDIVIDUAL AQUIFER PROTECTION PERMIT (APP) APPLICATION FORM

Preparation & Submittal Instructions:

This package contains an individual Aquifer Protection Permit (APP) application form with check boxes for required fields of information that must be provided by the applicant. Unless otherwise noted, the boxes for the required fields must be checked and related information provided for the application to pass Good Faith Review by the Arizona Department of Environmental Quality (ADEQ). If the application does not meet the test for Good Faith Review, it will not be processed. All information provided in support of this application is subject to Licensing Time Frames (LTF) for a license listed in Arizona Administrative Code (A.A.C.) Title 18, Chapter 1, Article 5.

Some portions of the application require the applicant to complete checklists and provide attachments. If additional information is provided or more space is needed, please reference the page number(s) of the application where this information can be found by the permitting team. Supplemental instructions and information are provided at the rear of this document. Page 18 provides telephone numbers for the Unit Managers in the Water Permits Section. You may contact the Unit Managers with questions.

ADEQ's time for application review is subject to an hourly rate in accordance with rule A.A.C. R18-14-102. The current hourly rate for review and processing is \$61/hour up to the maximum fee/cap established in statue Arizona Revised Statute (ARS)§49-241.02. If you have questions about the maximum fee, please contact us.

$\sqrt{}$	Please confirm/check that you have included the following in the application:
X	2 copies of complete Application Form and all attachments
	ADEQ recommends that the applicant provide 3 copies for applications that involve
	both hydrologic and engineering review
\boxtimes	Signed Certification Statement -1 original signature required
$\overline{\boxtimes}$	Initial Fee Check - \$1,000 unless otherwise negotiated
$\overline{\boxtimes}$	Required Maps, Figures & Checklists
	Table of Contents – location of information required for application
Mail/	Delivery of Application:

The application may be sent to ADEQ or hand delivered to the front desk. The application must be stamped in by an LTF Application Clerk in the Water Quality Division, Water Permits Section. This date-stamp is the official date of the document under Licensing Time Frames (LTF). The application (and subsequent submittals) will not be processed by ADEQ without an official LTF Application Clerk date-stamp.

ADEQ Address:	Application Clerk Phone Number:
Arizona Department of Environmental Quality	(602) 771-4633
Water Permits Section	
Attn: LTF Application Clerk	
1110 West Washington Street, Mail Code 5415B	
Phoenix, Arizona 85007	
	The state of the s



1	Facility Type		7	Check	One			White the primary design and the second seco
m	Industrial		\square			stewater		
H	Mining					nt Facili	tv	
H	Other (Fill In)						-3	
	Required Conta	et Informa	tion (AAC	R18-9-	A 201(B)	(1))	
2	Facility Name							
-	Facility Name	Golden Val	ley Ra	anch Inte	erim Wa	stewater 1	Γreatment Pla	<u> 244 26 24 26 26 26 26 26 2</u> nt
3	Applicant (if multi							
	Applicant Name	Mr. Kirk B			≜i utuga energi	garage Bound Const.	ation has to be to be to be the first of	September 1996 (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996) (1996)
	Business Name	Perkins Mo	untair	utilitie	s Compa	ny		
	Mailing Address	2215 Huala	pai M	ountain	Road, S	uite H		
	City	Kingman			State	AZ	Zip Code	86401
	Phone Number	(928) 71	8-22	10	J			I
4	Owner (if multiple	owners, atta	ch su	ppleme	ntal pag	es)		
-	Name	Mr. Kirk	Bryı	njulsor	1			
	Business Name	Perkins N	Mour	ntain U	tilities	Compa	ıny	
	Mailing Address	2215 Hu	alapa	i Mou	ntain F	Road, Si	uite H	
	City	Kingman	1		State	AZ	Zip Code	86401
	Phone Number (928) 718-2210							
5								
	Name Ray Jones							
	Business Name	Aricor Wat						
	Mailing Address	25213 N. 4	9 th Dri	ve	.,			
	City .	Glendale			State	AZ	Zip Code	85310
	Phone Number	(623) 34	1-477	71				***************************************
	cription of Facility			***************************************			·	
6	6 List Locations of All APP-Regulated Discharging Facilities (ARS§49-241(B)) Lists of discharging facilities provided by applicants in APP applications are often not all-inclusive. Please							
	s of discharging facilities www.ARS §49-241(A)(B)							
discl	discharging facilities may require multiple permits. For example a wastewater treatment plant discharge to a dry							
wash requires an APP and an Arizona Pollutant Discharge Elimination System Permit (AZPDES) permit. An								
emergency overflow in an impoundment to a canyon that is a tributary to a stream is considered a point source discharge to a navigable water. A point source discharge to a navigable water requires both an APP and an								
AZP	DES permit. Lagoons, p	onds and impo	undme	ents are re	egulated i	inder the A	APP program u	nless they are listed
	er exemptions found in A							
	lant location should be i sk that you take time to :				a Ama rac	anty HSt IS	me iounganor	or me permit, and



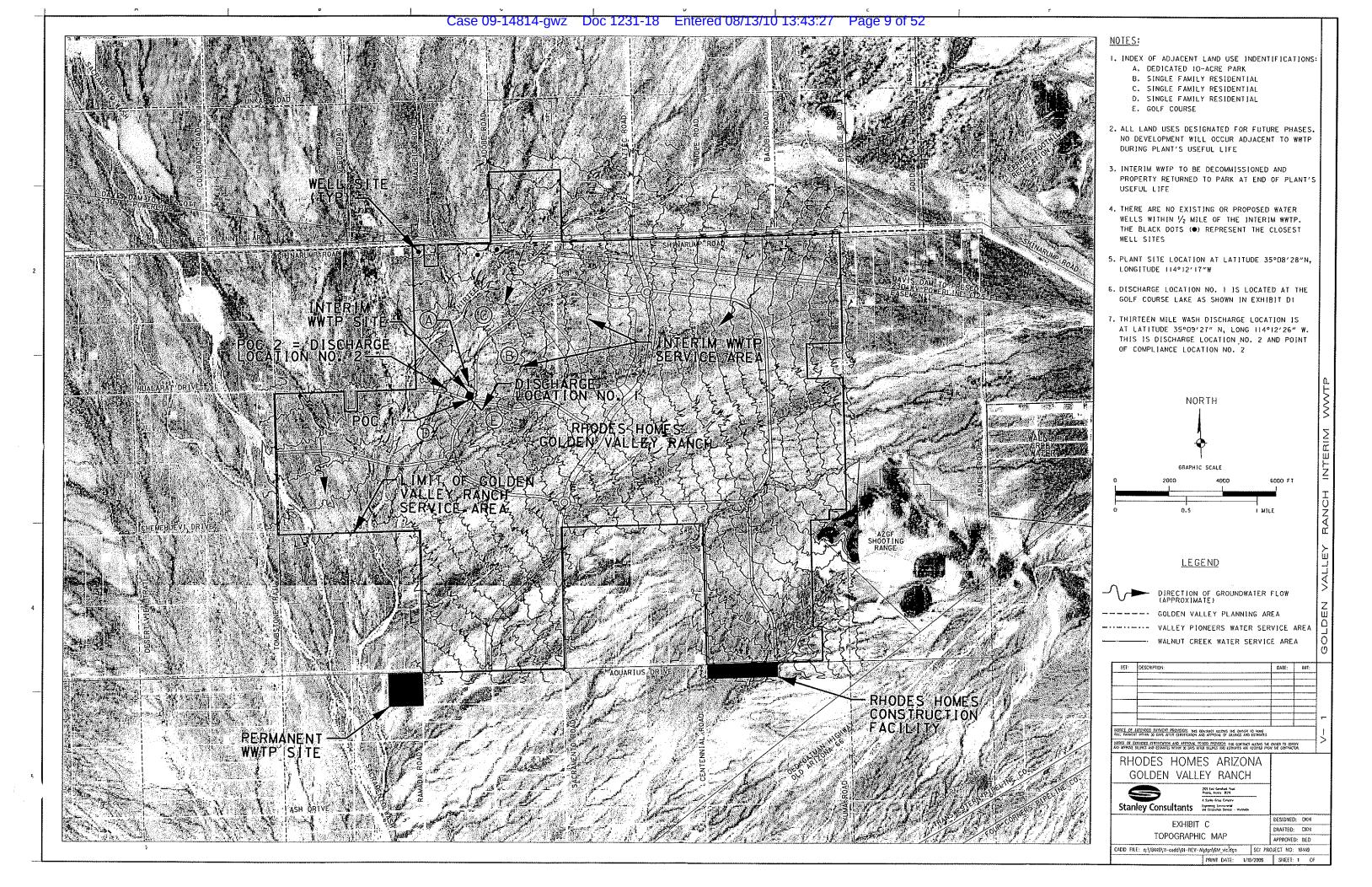
List of Discharging Facilit	ies (continued)			
Discharging Fac		Latitud	e (North)	Longitude (West)
Example: Surface Impoundment .	A	Ex: 32° 28'		111°17'12"
Ex: Injection Well		Ex. 32° 28'		111°17′12″
Ex: WWTP		Ex: 32° 28'		111° 17' 12.XX"
Golden Valley Ranch Interim	~~~~	35 degrees		114 degrees, 12' 17"
Thirteen Mile Wash, surface d	lischarge	35 degrees	8 08' 27"	114 degrees, 12' 26"
			-	
Attach Supplemental Table if nee	ded, Location:			
7 Nisposal Met	hod (ARS§ 49-24	1(A)(B))		
	Outfall to Navigable		Rechar	ge
	Leach Field			reatment Area
	Surface Impoundme	nt	Other	
(<u></u>	Injection Well			
	Reuse Permit No.	Application	on Pending	g
8 \ \ \ \ \ Legal Descri		roperty (A	A C R18	0. A 201(B)(1)(d))
,	ntal page if descripti			77337
See Exhibit A	mai page ij aestripii	on is longer	inan space j	proviaea nere.
See Exhibit A				
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9 X Cadastral Lo	cation of Property	v (A A C T	218 0 4201	1(D)(1)(J))
		ction 9		
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	. 1 675 1	•	D10 0 10	0.1 (1) (1) (1)
	ongitude of Facil			
Latitude 35° 08'	90 .00	ongitude	114°	12' 17" W
11 🔃 🔀 Facility Addr	ess and Contact I	nformatio	n (A.A.C. I	R18-9-A201(B))
Facility Physical Address/Dire	ctions 5125 W. H	ualapai Driv	e, Kingman,	Arizona 86401
		, , , , , , , , , , , , , , , , , , ,	, .	
City or Closest Town, if Remo	te Kingman, Arizo	ona	WXXCALX	1031MM (1.1/1.
	215 Hualapai Moun		Suite H	
City Kingman	State AZ		Zip Code	86401
Facility Contact Person	Mr. Kirk Brynjulso	n Phon	e Number	(928) 718-2210
Emergency Contact Person	Ray Jones		e Number	(623) 341-4771
with Boile Country of the Country	2017 001100	1 11(3)	(V 130111001	[(V&J) JTX-T//1

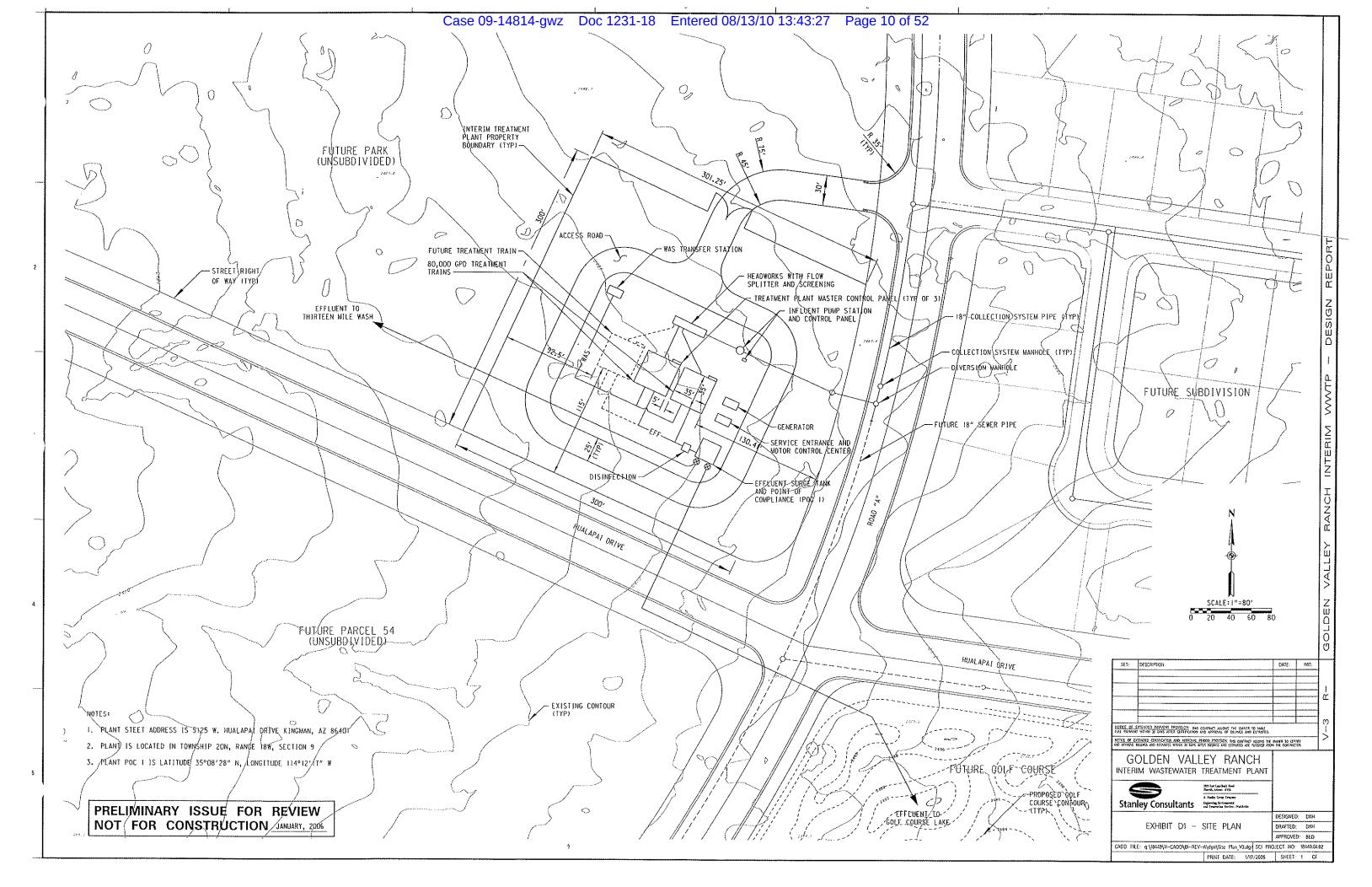


12	Check this l	oox if consultant is a	uthorized to act as "A	Agent" on behalf of Applicant	
applic	ation in accordance	with LTF. This step all	ows the consultant to di	the "Agent" for processing of this eetly negotiate terms and conditions	
		Bruce DiFrancisco		Il be directed to the consultant.	
		Stanley Consultant			
Maili	no Address	1661 E. Camelbac	k Road Suite 400		
	Phoenix	State		Zode 85016	
	e Number (602)333-2364			
13			R18-9-A201(B)(1)(e))): 1.33 (insert years)	
14			& State Environme		
	ı —		ttach supplemental ta		
North Cole Occupy	Permit Type	Permit Number	Issuance Date	Other Information	
Ex: 2	AZPDES/NPDES	AZ000001234	01/01/2001	3 outfalls No Name River	
E.	x: RCRA SQG	IDXXXXXXX	01/01/2001		
	lir Quality Permit	AZXXXXXXX	01/01/2001		
AZPI	DES	N/A	N/A	Submitted; currently under review	
	e permit	N/A	N/A	Application submittal pending	
	rve County 208 Amendment	N/A	N/A	Submitted; currently under review	
401 F	ermit	N/A	N/A	Application submittal pending	
	NAME AND THE PROPERTY OF THE P				
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	,				
		THE CONTRACTOR OF THE PROPERTY			
				23/10/20/10/20/10/20/10/20/10/20/10/20/10/20/10/20/10/20/10/20/10/20/20/20/20/20/20/20/20/20/20/20/20/20	
15	Are you requi	ired to file a Certifica	te of Disclosure?	Yes No	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			of disclosure per (per A.A.C.	
	R18-9-A201(B)(2) and ARS§49-109)				
[ -	Location of certific	ate in application 1	V/A		
			ipliance (A.A.C. R1	8-9-A201(B)(3))	
	· · · · · · · · · · · · · · · · · · ·		nces, codes and regul	ations	
	Location in Applica	ation   See Exhibit B			



	☐ Technical Information Requirements (A.A.C. R18-9-A202)				
	Attach minimum of (2) Cop	ies of Required Tech	nical Informat	ion – (3) copies are	
	recommended by ADEQ to	facilitate application			
,			Pages for		
1	Required Item		Information	Location in Application	
	Topographic Maps A)(1)		12	Exhibit C	
	Facility Site Plan ((A)(2))		13	Exhibit D	
	Design Documents & As-Bui		13	Exhibit E	
	Summary of Discharge Activ		8, 14	Exhibit F	
$\boxtimes$	BADCT Description & States	ment ((A)(5))	18	Exhibit G	
	a) Statement (a)(i-iii)		18, 19		
	b) Evaluation of Alternat		18, 19		
	c) Industry Wide Econon		19		
	d) Existing Facility State		20		
	🔀 c) Sewage Treatment BA		19		
$\boxtimes$	Proposed Point(s) of Complia		7, 16	Exhibit C	
$\boxtimes$	AWQS Demonstration((A)(6)		16	Exhibit H	
	Ambient Groundwater Report	$(A)(6)(b)^{1}$	16	Exhibit H	
$\boxtimes$	Contingency Plan ((A)(7)) and	l R18-9-A204	10	Exhibit I	
$\boxtimes$	Hydrogeologic Study (R18-9-	A202(A)(8))	16	Exhibit J	
$\boxtimes$	Discharge Impact Area Map/O	Criteria Criteria	16	Exhibit H	
$\boxtimes$	Detailed Proposal for All Mor	nitoring ((A)(9))	12, 14, 19	Exhibit K	
$\boxtimes$	Closure and Post-closure Strat		13-14, 21	Exhibit K	
۱ اسسا	Other Info (get input @ pre-ap	saliantina mandina)	3.7.4		
	G WALL WILLO (Bot Impar (as bio a)	prication meeting)	NA		
	Technical Capability (R18-9-	A202(B))	NA		
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*Provide the location in application for all supporting documentation and calculations that were used to prepare



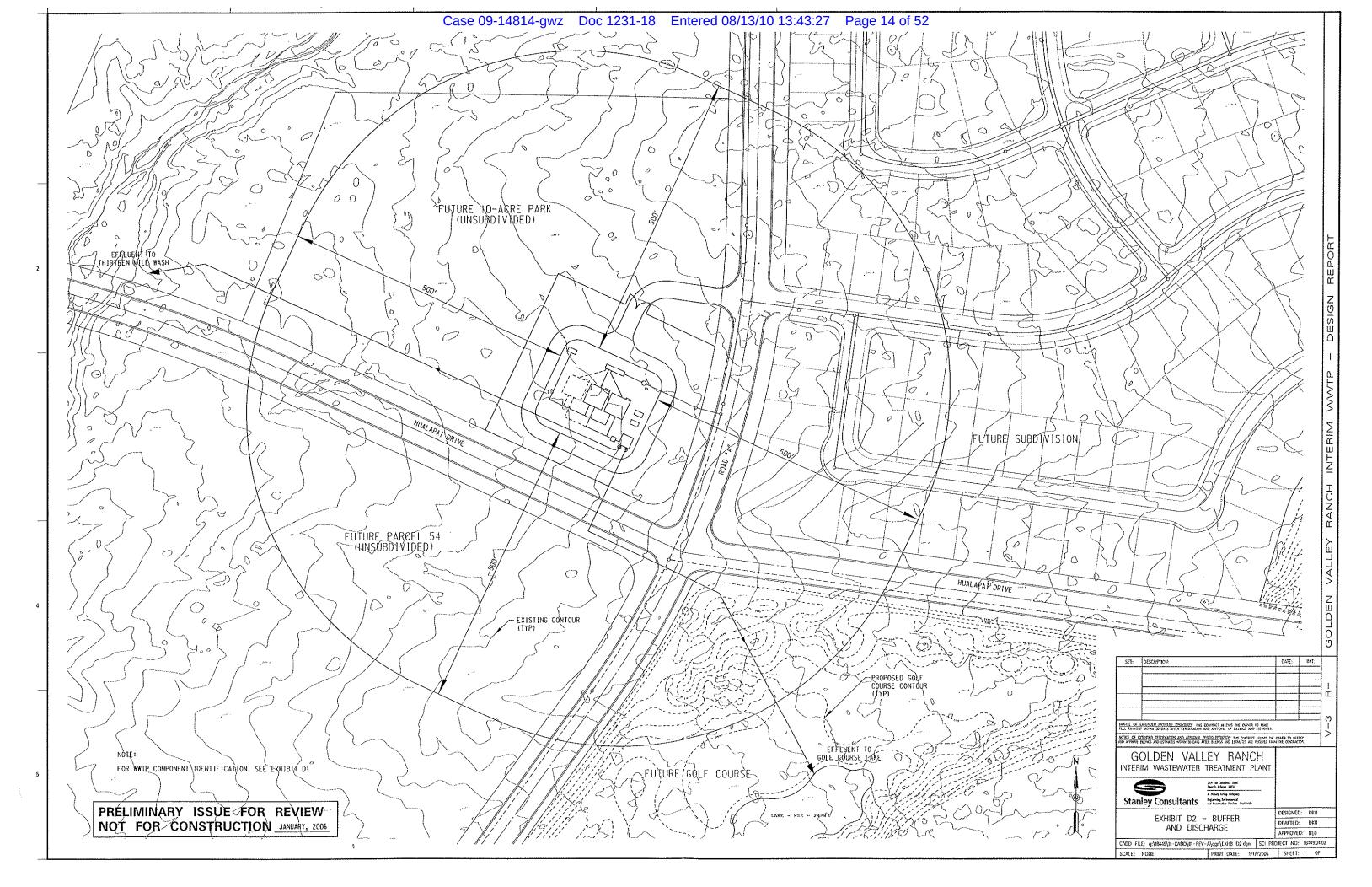
I certify under penalty of law that this Aquifer Protection Permit application and all attachments wer prepared under my direction or supervision in accordance with a system designed to assure the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including permit revocation as well as the possibility of fine and imprisonment for knowing violations.  Name (print or type)  Mr. Kirk Brynjulson  Title (print of type)  Signature  Date of Signature  Day / Month Fig. Year 200 g  Please check box that applies:  Owner	Attach Certificate of Conformance with Area-wide Quality Management Plan (*208 Plan") Location: Exhibit O  Attach Design Report as required by A.A.C. R18-9-B202 & Engineering Plans & Specifications in accordance with R18-9-B203 (if required) Location: Exhibit E  Certification Statement (R18-9-A201(B)(7)) — Required for All Applicants [Please attach this page, with your signature, or a separate sheet with the following statement and your signature to your application. ADEQ will not process your application without a signature.]  I certify under penalty of law that this Aquifer Protection Permit application and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including permit revocation as well as the possibility of fine and imprisonment for knowing violations.  Name (print or type) Mr. Kirk Brynjulson  Title (print of type) Mr. Kirk Brynjulson  Title (print of type) Mr. Kirk Brynjulson  Title (print of type) Operator Owner & Operator	SEWAGE TREATMENT FACILITIES ONLY  Attach Certificate of Conformance with Area-wide Quality Management Plan ("208 Plan") Location: Exhibit O  Attach Design Report as required by A.A.C. R18-9-B202 & Engineering Plans & Specifications in accordance with R18-9-B203 (if required) Location: Exhibit E  1 Certification Statement (R18-9-A201(B)(7)) — Required for All Applicants [Please attach this page, with your signature, or a separate sheet with the following statement and your signature to your application. ADEQ will not process your application without a signature.]  I certify under penalty of law that this Aquifer Protection Permit application and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including permit revocation as well as the possibility of fine and imprisonment for knowing violations.  Name (print or type) Mr. Kirk Brynjulson  Title (print of type) Mr. Kirk Brynjulson  Title (print of type) Mr. Kirk Brynjulson  Title (print of type) Operator Owner & Operator  22 M Initial Fee (R18-9-A201(B)(8))  The fee rules require an initial fee to be paid in full before ADEQ reviews the application. Fees may be paid by county check, purchase order, city clerk, certified check, or money order, made payable to "ADEQ". ADEQ will not process your application without the appropriate initial fee paid in full. ADEQ's time for application review is subject to an hourly rate in accordance with rule A.A.C. R18-19-102. The current hourly rate for review and processing is \$61/bonu rup to the maximum fee, please contact us.  Check or Money Order Number 3 2.36	Construction of the	support estimates)				
Plan") Location: Exhibit O  Attach Design Report as required by A.A.C. R18-9-B202 & Engineering Plans & Specifications in accordance with R18-9-B203 (if required)   Location: Exhibit E  21	Plan") Location: Exhibit O  Attach Design Report as required by A.A.C. R18-9-B202 & Engineering Plans & Specifications in accordance with R18-9-B203 (if required) Location: Exhibit E  21	Plan") Location: Exhibit O  Attach Design Report as required by A.A.C. R18-9-B202 & Engineering Plans & Specifications in accordance with R18-9-B203 (If required) Location: Exhibit E  21	20	SEWA				ONLY
Specifications in accordance with R18-9-B203 (if required) Location: Exhibit E  21	Specifications in accordance with R18-9-B203 (if required) Location: Exhibit E  21	Specifications in accordance with R18-9-B203 (if required)   Location: Exhibit E	$\boxtimes$			vith Area-wide Qı	uality Manag	gement Plan ("208
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			xisting Not Proposed
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		Proposed E	xisting Not Proposed
		Proposed E	xisting Not Proposed
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		Proposed E	xisting Not Proposed
		Proposed Ex	xisting Not Proposed
25	\boxtimes	Characterization of the Discharge A.A.C. R18-9-A202(4)	
The	permi	nit application must include items below. Please provide a reference for wh	ere in the application the
requi	ired in	information can be found (Attachment Number, Appendix Number, etc.) by the	he permitting team. Please
note		discharge locations should correspond to the list of discharging facilities provid	
	\boxtimes	Map of All Discharge Locations (Minimum of 2 copies, 3 recommend	
			a: Exhibit F
	\boxtimes	Material Safety Data Sheets (MSDS) for Operations Location	***************************************
	\boxtimes		n: Exhibit E
		Characteristics of the Discharge	
		Provide One of the Following:	
		Results of Analysis Sampling & Analysis Plan for Characte	rizing the Discharge
		And provide:	
	K 21	Written Description of the Expected Discharge Quality	
	\boxtimes	Rate and Volume of Discharge (attach calculations)	
		Provide rates used for facility designs, determining storage capacity and imp	oundment life, etc. For
		impoundments, provide an attachment with calculations used to determine st Design gallons per day (gpd) gallo	
			ns per minute (gpm)
		5 Sp	per day r Unit:
-	\boxtimes	Frequency of Discharge (Choose One or all that Apply)	ocation: Exhibit E
	67	Seasonal (describe):	- TOTAL TOTA
		Constant	
		Intermittent (describe): Total anticipated annual discharge equal to	- 20 dans - C. Clarant
		240,000 gpd	5 20 days of now at
		Temporary (describe):	
		Contingency/Emergency Use Only (describe):	
		Other	ATTENDED TO THE PARTY OF THE PA
	\boxtimes	Provide Map of Pollutant Management Area(s) ARS§49-244(1)	
	الاسكا	ADEQ recommends providing (3) copies, a minimum of (2)copies are	required N/A
		For an area-wide permit this may circumscribe multiple APP discharging fac	o roquinou
		Management Area (PMAs) may also be proposed by the applicant. T	his map is used in the
		consideration of POCs.	,
	The	ne applicant may provide copies of all relevant MSDS or may provide a statemen	nt that the MSDS will be
	made	le available to inspectors upon request at the time or inspection or supplied to Al	DEO within 30 days of
	writte	iten request.	224 mini 20 daya 01





26		ility Demonstration			
All	All plans, specifications, reports, or any other professional documents submitted in support of the				
app	application which fall within the statutory definition of Engineering practice, Geological practice, or				
Lar	and Surveying practice must be prepared by a qualified preparer and must be sealed and signed in				
acc	ordance with the applicable	e laws and rules of the Arizona State Board of Technical Registration for			
Arc	hitects, Assayers, Engine	ers, Geologists, Landscape Architects, and Land Surveyors before			
sub	mission to ADEQ.				
\boxtimes	Engineering Design (att	ach supplemental pages if needed)			
	Name of P.E.	Bruce E. DiFrancisco			
	Title	Senior Environmental Engineer			
	Firm	Stanley Consultants, Inc.			
	BTR Registration No.	30181			
	Pertinent Licenses and Co	ertifications			
	Provide the Following:	,			
	Provide information	regarding professional training relevant to the design and construction			
		ation in APP: Exhibit Q			
		naries and resumes showing work experience relevant to the design			
	and construction of	f the facility. Location in APP: Exhibit O			
500		he party's technical capability relevant to the design of the facility or its			
	components. Location	in APP. Exhibit O			
Ø		r (attach supplemental pages if needed)			
	Name	TBD (To Be Determined) - will provide to ADEQ when selection is			
		made			
	Title				
	Firm				
	BTR or ROC Number				
	Pertinent Licenses & Certifications				
	Provide information regarding professional training relevant to the construction				
	of the facility. Location in APP:				
	Provide project summaries and resumes showing work experience relevant to the				
	construction of the facility. Location in APP:				
	Provide the basis for the party's technical capability relevant to the construction of the facility				
	or its components. Location in APP:				
		h supplemental pages if needed) - Operations & Maintenance			
	Name	Ray Jones			
	Title	President			
	Firm	Aricor Water Solutions			
	BTR Number, if Applic	Alleof water politicity			
	Pertinent Licenses and Ce	ertifications ADEO Cycle 2 MUN C. 11. C. C. T.			
	I CHINCIR LICENSES AND CE	rtifications ADEQ Guide 3 WW Collections & Treatment Operator			
	Provide information	regarding professional training relevant to the Operation &			
		acility. Location in APP: Exhibit R			
		naries and resumes showing work experience relevant to the			
		nance of the facility. Location in APP: Exhibit R			
	Provide the basis for the	ne party's technical capability relevant to the O &M of the facility			



	or its components. Location in APP: Exhibit R
7777 9132	Continued on next page



X	Hydrogeologic Studies			
	Name	N/A		
	Title			
	Firm			
	BTR Number			
	Pertinent Licenses & Cer	tifications		
	Provide information	regarding professional training relevant to the hydrogeologic		
	components of the a	pplication. Location in APP:		
	Provide project sum	naries and resumes showing work experience relevant to the		
		onents of the application. Location in APP:		
	Provide the basis for t	he party's technical capability relevant to the hydrogeologic		
	components of the ap	plication. Location in APP:		
\boxtimes	Closure Planning/Design			
	Name	Bruce E. DiFrancisco		
	Title	Senior Environmental Engineer		
	Firm	Stanley Consultants, Inc.		
	BTR Number	30181		
	Pertinent Licenses & Cert			
		regarding professional training relevant to the Closure costs and		
		of the application. Location in APP: Exhibit Q		
		naries and resumes showing work experience relevant to the		
		(including costs) of the application. Location in APP: Exhibit Q		
		he party's technical capability relevant to the Closure		
	components of the app	plication. Location in APP: Exhibit Q		
27	⊠ Contingency Plan	Exhibit I		
A Contingency Plan must be submitted with your application. If you have questions regarding the applicability of				
any c	of the items below, please sch	edule a pre-application meeting or contact the appropriate Unit Manager of the		
Water Permits Section (Industrial, Mining, and Wastewater, Reuse & Recharge). The APP Framework (formerly				
referred to as the "boilerplate") contains standard language for some of the items below. ADEQ also has				
contingency language for specific types of APP regulated facilities such as double lined impoundments. Copies of the APP Framework and examples of typical contingency language used in permits can be provided to you				
upon request. You may need to propose additional language, or steps that are specific to your facility design and				
settin	ig.	of our and instance and of other time are appointed to your facility design and		
A contingency plan prepared to meet the requirements of the Federal Water Pollution Control Act (P.L. 92-500;				
86 Stat. 816; 33 U.S.C. 1251, et seq., as amended), or the Resource Conservation and Recovery Act of 1976				
(P.L. 94-580; 90 Stat. 2796; 42 U.S.C. 6901 et seq., as amended), may be amended to meet the requirements of				
an APP application and submitted to the Department for approval instead of a separate aquifer protection contingency plan, with the exception of plans for exceeding alert levels, discharge limits and aquifer quality				
limits which are specific to the APP program. If your permit will contain discharge monitoring and groundwater				
monitoring, include contingency requirements specific to your facility and monitoring program in the				
application. Potential responses are identified beneath each plan. Please reference the location in the application				
submittal for each of the items below.				
		lan of Response to Violations of Permit Conditions		
		llation, ceasing discharge, performing repairs, etc. an for Response to Violations of AWQS at the POC		
	🖂 rioviue Kequirea Pi	ian for response to violations of AWOS at the POC		



		 Verification Sampling Additional Investigation, such as modeling impacts, or installing monitoring wells Increased monitoring frequency or monitoring for revised constituent list (additional parameters)
		Identification of Potential Receptors (Groundwater Users)
		Notification to Down-gradient Groundwater Users, if appropriate
		Implementation of Hydrologic Study to Assess Extent of Impact
100		Preliminary Triggers for Corrective Actions
		Evaluation of Facility BADCT/Upgrades
		Reporting Procedures
	\boxtimes	Response to Exceeding of a Discharge Monitoring Alert Level, if proposed
		Increased or Additional Monitoring
		Evaluation of BADCT, corrections as needed
		Reporting Procedures
	Response to Exceeding Groundwater Monitoring Alert Level, if proposed	
		Verification Sampling
	100	Reporting to ADEQ in accordance with standard requirements
		Increased monitoring
		Evaluation of BADCT, corrections as needed
		Assessment of groundwater flow
		Response to Exceeding a Discharge Limitation or Limit
		Verification Sampling
		Reporting to ADEQ in accordance with standard requirements
		Evaluate BADCT performance
		For Sewage Treatment Facilities – Assess pre-treatment program
		Assess needs for upgrade or operational changes
		Assess need to install groundwater monitoring wells or revise the monitoring
		program
	\boxtimes	Provide a Plan for Response to Imminent and Substantial Endangerment to the
		Public Health and Environment (including contact list with names and telephone
	M	numbers) Location: Exhibit I
		Provide a Response Plan for Unauthorized Discharges/Releases
		Notification to ADEQ
		Procedures to be used to control discharge
		 Personnel and equipment used to respond Exhibit I
	\boxtimes	Provide a 24-Hour Emergency Response Plan Exhibit I
	\boxtimes	Provide an Emegency Contact for the permit (Form Item No. 11)



28 | General Instructions & Information

The remainder of this document provides general information and limited guidance for completing the individual APP application form. For more specific, detailed guidance, the permit applicant is directed to the current version of the APP Application Guidance Document.

If you have questions that are not addressed by the information provided in this application package, please contact the Unit Manager for the appropriate Unit below:

- Mining Unit Manager (602)771-4663
- Industrial Wastewater (602)771-4385
- Wastewater, Recharge and Reuse Unit (602)771-4683

If your questions are regarding hydrogeology, please ask to speak with a hydrologist also.

A Permit Amendments

Amendment to an existing APP requires use of a different form, a Request for Amendment Form. While this packet may be used as guidance, especially for significant amendments, the Request for Amendment form must be used for permit transfers, all forms of amendment (significant, minor and other). The Request for Amendment should be accompanied by an explanation of the purpose of the amendment.

B Rule and Statute Citations

Citations to rule and statute have been provided in the form to guide you through the application completion process. Specific requirements are contained in rule and statute and ADEQ recommends that applicants look up the requirements and authority for components of the permit application to make sure that sufficient information is provided.

C Groundwater & Discharge Monitoring

ADEQ uses standard tables for groundwater and discharging monitoring. You may wish to obtain examples from permits that have been issued for facilities that are similar to your facility and use these as a guideline for developing a monitoring program. Examples of proposed tables may be submitted with your application.

Different tables may be required for initial discharge characterization or ambient groundwater quality sampling compared to routine sampling programs. If existing groundwater quality data is available, ADEQ may require you to establish alert levels and Aquifer Quality Limits (AQLs) in your permit using the existing data.

Alert Levels and Discharge Limits that are set in discharge monitoring tables are typically based on treatment performance standards for new sewage treatment facilities and also reclaimed requirements. For other facilities, discharge limits will depend on the character of the discharge and the control technology that is used/proposed.

The application should include details regarding the proposed discharge and groundwater monitoring plans that will be followed during the operational life of the facility – including ambient or initial monitoring and routine monitoring.

D Location and Topographic Map

Submit a topographic map, or other appropriate map (pre-approved by the Department) showing relief:

The facility site and property boundary and the contiguous land area



- The known use of adjacent properties next to the facility (show boundaries where possible)
- All known water well locations found within one-half mile of the facility and well use (see below)
- Latitude and longitude of all APP-discharging facilities
- Scale and north arrow
- Discharge Impact Area, if appropriate

Submit a description of well construction details and well uses (including ADWR completion reports and well logs, when available) for all wells shown on the location map. All information must be presented so that the corresponding well locations can be easily identified.

E | Facility Site Plan

Submit a facility site plan which shows

- All known property lines/property boundaries
- Frame of reference (e.g., street intersections, Township and Range, Latitude and Longitude, etc.)
- Topography/Drainage Features
- Buildings and structures
- Water wells and monitoring wells on-site and reference names
- Existing borings or sampling points and reference names
- Injection wells including drywells, and their uses
- Location of all points of discharge listed in Table on Page 5 of the application
- Proposed Point(s) of Compliance (see Part 6 below)
- Pollutant Management Area(s)
- Location of Reuse Areas (if appropriate)
- North Arrow and Scale

The site plan must either be drawn to scale or all dimensions and distances must be indicated. For wastewater treatment plants, the number of pages of required design drawings may be reduced; please see the project officer for recommendations before you make any submittals.

If possible, this site plan should be provided to ADEQ both in hard copy and in electronic format such as GIS or as a JPG or TIFF file.

F Facility Design Plans

For existing facilities, submit design plans which indicate:

- As-built design details relevant to discharge control and BADCT analysis
- As-built configuration of basins, ponds, waste storage areas, drainage diversion features, or other engineered elements of the facility affecting discharge
- Proposed upgrades to an existing facility must include both the proposed and existing, asbuilt design details, and the proposed and as-built configuration of basins, ponds, waste storage areas, drainage diversion features, or other engineered elements of the facility affecting discharge.

For new facilities, submit design plans which indicate:

- Proposed design details and reports sealed by an engineer under BTR requirements
- Proposed configuration of basins, ponds, waste storage areas, drainage diversion features, or other engineered elements of the facility affecting discharge.

All facility design plans must be drawn to scale and all dimensions and distances must be indicated. Design plans must be sealed in accordance with Arizona Board of Technical Registration



requirements. For Sewage Treatment Facility, specifics regarding design plan are provided in rule.

G Closure and Post-Closure Strategies/Plan

The application must include a strategy or plan for how the facility will be closed. An example of items the strategy or plan may include or consider:

- Identification of the closure goal such as achieving clean closure vs. other closure status
- Fate of impoundment liner systems removed and disposed or closed (left) in place
- Grading and Drainage Plans such as bringing impoundments back to grade or grading to prevent ponding of stormwater
- Post closure groundwater monitoring if clean closure is not proposed
- Method or approach to defining the extent of contamination if needed
- Removal of facility piping, tanks, structures, etc.

This should be an overview of steps or assumptions that are used to create the closure cost estimates for the financial capability demonstration.

H | Characterization of the Discharge

The permit applicant must provide sufficient details and information for evaluating BADCT and demonstrating compliance with Aquifer Water Quality Standards (AWQS) at the Point of Compliance (POC). The quality of the discharge is an integral part of evaluating proposed BADCT and discharge monitoring requirements and also determining whether or not groundwater monitoring is required to demonstrate compliance with Aquifer Water Quality Standards at the applicable Point of Compliance. Therefore, adequate information regarding all past, present, and future discharges must be provided.

Material safety data sheets (MSDS) – these should be provided or available upon request or inspection for all chemicals used in the operation or treatment processes that have been and will be discharged to the surface or subsurface environment in accordance with the checklist.

Description of Discharge Quality - Provide a description of the chemical, biological, and physical characteristics of all past, present, and future discharges. Every discharge should be evaluated, at a minimum, for pollutants generated in the process or that would likely be present in the discharge and constituents with numeric Aquifer Water Quality Standards. For individual closure permits, ADEQ suggests that applicants consider the list of constituents with Soil Remediation Levels and Groundwater Protection Levels and assess the discharge for these constituents.

Discharge Characterization - If the character of the discharge is unknown, ADEQ will require a discharge characterization that will include collection of representative samples of the discharge as part of an application deficiency or for new facilities under a compliance schedule in the permit after operations start up. At a minimum the discharge should be assessed for constituents with established numeric Aquifer Water Quality Standards. However, you may also wish to consider constituents that would make good indicators of discharge, and in the case of closure, constituents with established soil remediation levels or groundwater protection levels. A Sampling and Analysis Plan should be provided that proposes how the discharge will be characterized and the plan should propose a schedule for sampling/characterization. Sometimes the discharge is characterized after the start-up of operations.

For current discharges, submit or propose to submit analytical data from representative samples of the discharge, and include all laboratory reports and quality control data and supporting documentation. A series of sampling events is often necessary to obtain representative data. The samples must be analyzed for all constituents that might potentially be present in concentrations exceeding aquifer



water quality standards (both numeric and narrative). Analysis for general inorganic water quality parameters (total dissolved solids, major ions, etc.), which can be used as indicators of potential impacts to groundwater, is recommended.

For proposed discharges, include chemical analyses or projected chemical composition based on manufacturer's data, bench or pilot scale testing, or data from similar operations – if this information is available.

For proposed industrial discharges, provide a sampling and analysis plan for characterizing the discharge after start up of operations to verify discharge quality, and if appropriate, liner compatibility and a schedule for sample collection. The sampling and plan should specify sampling collection locations, methods, analytical methods and quality assurance measures. If multiple sampling points are proposed for your facility, a map or figure depicting the sampling locations is recommended along with latitude and longitude coordinates for each sampling point.

For closed facilities or past discharges, include all available supporting documentation and analytical data, including analytical results defining the extent of contamination, if present.

Discharge Monitoring Plan

ADEQ suggests that the applicant provide a discharge monitoring plan that proposes constituents/parameters, monitoring frequency, and reporting frequency that are appropriate for the facility type and BADCT requirements. The monitoring plan is a method of demonstrating that BADCT performance standards are met during the life of the facility. If these items are not proposed, ADEQ may establish a plan in the permit based on requirements for other similar facilities.

Not all facilities require routine, on-going discharge monitoring. In some cases only initial characterization is needed, such as in the case of industrial discharge to a double lined impoundment with a leak detection and recovery system (LCRS) which is state of the art impoundment BADCT. If BADCT relies heavily on treatment, then expect that the discharge monitoring will be required to demonstrate that BADCT has been achieved.

Discharge monitoring is required for Sewage Treatment Facilities (STFs) which are classified and discharge to reclaimed uses



Demonstration of Compliance with Aquifer Water Quality Standards at the POC

In order to obtain an aquifer protection permit, the applicant must demonstrate that the facility will not cause or contribute to a violation of Aquifer Water Quality Standards¹ (AWQS) at the applicable point of compliance ². The demonstration must designate the point or points of compliance for the facility, regardless of whether groundwater monitoring is proposed. If an AWQS for a pollutant has been exceeded in an aquifer, the application must include ambient groundwater quality data (an ambient report) showing groundwater concentrations exceeding the AWQS and include a demonstration that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC, will occur as a result of discharge from the facility.

The amount of information needed to support the demonstration of compliance will vary depending on the design of the facility, the characteristics of the discharge from the facility, and the ambient groundwater quality at the facility. In general, the **demonstration requires a hydrogeologic study** which defines and characterizes the discharge impact area (DIA), including impacts to the vadose zone, for the expected duration/life of the facility and post-closure period. The permit should include a Discharge Impact Area Map and criteria used to create the map.

ADEQ may allow a permit applicant to perform an abbreviated hydrologeologic study, or if warranted, no hydrogeologic study, based upon the quantity and characteristics of the pollutants discharged, the methods of disposal, and the site conditions. For example if the discharge meets numeric AWQS and the depth to groundwater limits the potential for impact, then no further degradation would be expected in groundwater and groundwater monitoring would not typically be required by ADEQ.

Information from a previous study of the affected area may be included to meet a requirement of the hydrogeologic study, if the previous study accurately represents current hydrogeologic conditions. Sources of data such as the Arizona Department of Water Resources (ADWR) and ADEQ's groundwater database may provide valuable background information that can be used for the preapplication meeting and for making decisions about what is needed to fill in data gaps.

A pre-application meeting is a good opportunity to go over specific requirements for your facility based on hydrogeologic setting and facility information (see information regarding pre-application meetings at the end of this packet). It is possible that the requirements may be reduced based on information presented by the applicant at the pre-application meeting. At a minimum, the permit applicant should contact the Department, by phone or in writing, with any questions regarding the applicability of any of the information below to the subject facility.

¹ Aquifer Water Quality Standards include both numeric (AAC R18-11-406) and narrative (AAC R18-11-405) standards. Narrative standards include pollutant concentrations which endanger human health or impair existing or reasonably foreseeable uses of water in an aquifer and water quality standards for navigable waters of the state.

² The point of compliance (POC) is the point at which compliance with aquifer water quality standards is to be determined. ARS § 49-244 defines the POC as a vertical plane downgradient of the facility (with respect to groundwater flow) that extends through the uppermost aquifers underlying that facility. For hazardous substances, the POC should be located at the downgradient edge of the pollutant management area (PMA). The PMA is the limit projected in the horizontal plane of the area on which pollutants are or will be placed. The PMA includes horizontal space taken up by any liner, dike or other barrier designed to contain pollutants in the facility. If the facility contains more than one discharging activity, the PMA is described by an imaginary line circumscribing the several discharging activities. The WPS substantive policy on area-wide permits and PMAs may also be useful.



Supporting documentation and/or references should be provided where applicable (e.g., photocopies of ADWR maps or pages from reference material, laboratory data, boring logs, technical reports from site investigations at or near the site, etc.).

- A description of the surface and subsurface geology, including a description of all borings(such as lithologic logs and sampling results) and map of boring location
- The location of any perennial or ephemeral surface water bodies
- The location of the 100-year flood plain and an assessment of the 100-year flood surface flow and potential impacts on the facility
- The depth to groundwater and the characteristics of the aquifer and geologic units with limited permeability, including hydraulic conductivity and transmissivity of the aquifer(s)
- Rates, volumes, and directions of surface water and groundwater flow, including hydrographs, if available, and equipotential maps showing the direction of groundwater flow, pollutant management area(s), and correct placement of the proposed POC(s) with respect to groundwater flow.
- A documentation of the existing quality of the water in the aquifers underlying the site, including, where available, the method of analysis and quality assurance and quality control procedures associated with the documentation. ADEQ encourages applicants to submit ambient or existing groundwater quality data in spreadsheet form.
- A description of any expected changes in the elevation and flow directions of the groundwater that may be caused by the facility (for example mounding beneath a percolation pond or changes in flow patterns from injection or recharge)
- A description of any anticipated changes in the water quality expected as a result of the discharge
- A documentation of the extent and degree of any known soil contamination in the vicinity of the facility
- An assessment of the potential of the discharge to cause the leaching of pollutants from surface soils or vadose materials
- A map of the facility's discharge impact area and the criteria and methodologies used to determine the discharge impact area
- A description of the proposed location of each point of compliance. The location(s) of the proposed point(s) of compliance should be indicated on the facility site plan, and the latitude(s) and longitude(s) should be provided. Identify whether the point(s) of compliance are for hazardous or non-hazardous substances.
- The application must clearly state whether or not monitoring wells have been installed at the POC(s) or will be as part of permitting efforts. If monitoring wells have been installed, the design details for the wells should be provided, including depth, screened interval, current depth to groundwater and well use. The application should justify the screened interval with respect to the uppermost aquifer and if multiple aquifers are present, should justify the placement of the screen(s).
- If new monitoring wells are proposed as part of the APP application, the application should include the preliminary well design, and a proposed plan for conducting initial ambient groundwater monitoring and for performing statistical analysis of the data to propose Alert Levels (ALs) and AQL(s) for the groundwater monitoring program.



• For new monitoring wells, the permit application should propose dates for when wells will be installed, for submittal of well installation reports and as-builts, and for submitting an Ambient Groundwater Monitoring Report to ADEQ documenting groundwater quality in the new well(s).

For new or existing facilities, or for closed facilities that require post-closure monitoring and maintenance, a detailed proposal should also be submitted which indicates how compliance with Aquifer Water Quality Standards will be monitored (including a monitoring plan) and maintained over the operational life of the facility and the post-closure period, if applicable. The proposal should include any or all of the following, depending on the type of application:

- Routine Monitoring Plans for wells
- Alert levels
- Aquifer Quality Limits (AQLs)
- Discharge limitations for discharge monitoring
- Contingency plans

- Compliance schedules
- Closure strategy
- Post-closure plans

Best Available Demonstrated Control Technology Evaluation & Statement

In order to obtain an aquifer protection permit, the applicant must demonstrate that the facility will be so designed, constructed, and operated as to ensure the greatest degree of discharge reduction achievable through technology, design, construction, processes, operating methods or other alternatives, including, where practicable, a technology permitting no discharge of pollutants. **BADCT** can **either** be demonstrated through justifying the design as BADCT in a **site-specific** manner, **or** by utilizing a design that is consistent with "**prescriptive**" design features or performance standards identified by the department for a few limited classes of facilities.

Site specific characteristics alone cannot satisfy BADCT requirements. New facility BADCT applies to existing facilities that undergo expansion or major modification as defined in ARS§49-201(22). New Sewage Treatment Facilities have specific BADCT requirements and treatment performance standards under A.A.C. R18-9-B204.

In general, the better the quality of the discharge achieved and demonstrated through discharge characterization and monitoring, the less emphasis is placed on control technology and groundwater monitoring to demonstrate compliance with Aquifer Water Quality Standards (AWQS) at the applicable Point of Compliance. The higher the BADCT in terms of achieving improved discharge quality that meets AWQS, the easier it is for the applicant to make the argument that compliance with standards is met at the ground surface or point of discharge to an impoundment, and groundwater monitoring is not necessary for the demonstration of compliance with standards.

An example Table of Contents is provided after this text that may be followed by the applicant to make sure required information is provided to ADEQ.

Sewage Treatment Facilities - Exclusions from Evaluation Process

BADCT for new sewage treatment facilities is specified in rule including but not limited to requirements for noise, odor control, set-backs, and treatment performance standards. BADCT is established in Article 2, Part B and facilities meeting this, do not require a BADCT evaluation (A.A.C. R18-9-A202(5)(b)) or statement (A.A.C. R18-9-A202(5)(a)).



Prescriptive BADCT

The prescriptive approach is currently available for the following facility types:

- · Mine non-storm water ponds
- Mine process solution ponds
- Heap leach pads using synthetic liners
- Tailing impoundments with synthetic liners
- Industrial surface impoundments using synthetic liners, such as impoundments at power plants/utilities
- Industrial discharges using clean water treatment technology

ADEQ recommends that the applicant review BADCT guidance documents and contact us for details regarding current prescriptive configurations. Making a BADCT demonstration using the prescriptive approach involves submitting design information to show that your design is consistent with the guidance material and prescriptive designs in use today.

Prescriptive BADCT does not require the same detailed BADCT alternative evaluation as Site-specific BADCT, but rather that the applicant commit to using state-of-the-art design and treatment methods.

Evaluation of Alternatives - Site-specific BADCT

The APP application must contain an evaluation of BADCT alternatives in accordance with A.A.C. R18-9-A202(A)(5)(b) and related statement. This evaluation of alternatives should include an assessment of options compared to discharge reduction achieved and cost; technical advantages and disadvantages. Other aspects of BADCT such as water conservation and beneficial use may be included in this evaluation. For a new facility, the BADCT evaluation must include an industry-wide evaluation of the economic impact of implementation of alternative technologies. The BADCT evaluation should provide the justification for the proposed selected BADCT design.

The evaluation of each alternative discharge control measure should include the amount of discharge reduction achievable, site specific hydrologic and geologic characteristics, other environmental impacts, and water conservation or augmentation. For ease of review, ADEQ recommends the use of tables for comparing alternatives. These tables should summarize the hydrologic and engineering variables associated with the design of each alternative BADCT demonstration.

A new facility must limit the discharge of those pollutants specified in A.R.S.§ 49-243(I) to the maximum extent practicable regardless of cost.

In selecting the proposed BADCT alternative based on a site specific demonstration, the following should be provided:

- A description of the pollution control technologies, processes, and/or operating methods to be employed in the facility; and,
- A discussion of how these technologies, processes, and/or operating methods meet the BADCT requirements



The evaluation should conclude with a statement regarding the proposed BADCT, in accordance with rule AAC R18-9-A202(A)(5)(a)(i-iii).

Existing Facilities

For an existing facility, in addition to the above, the following factors shall also be considered:

- Toxicity, concentrations and quantities of discharge likely to reach an aquifer from various types of control technologies;
- The total costs of the application of the technology in relation to the discharge reduction to be achieved from such application;
- The age of equipment and facilities involved;
- The industrial and control process employed;
- The engineering aspects of the application of various types of control techniques;
- Process changes;
- Non-water quality environmental impacts; and,
- The extent to which water available for beneficial uses will be conserved by a particular type of control technology.

Closure of Facilities and "No Further Discharge"

BADCT guidance is currently unavailable for closure permits. The applicant must demonstrate that the proposed closure eliminates, to the greatest degree practicable, any reasonable probability of further discharge from the facility and of exceeding Aquifer Water Quality Standards at the applicable point of compliance (see Part B.6.). ADEQ typically requires the applicant to define the extent of contamination as part of closure and to provide a report of results in support of closure. Closure may include using Soil Remediation Levels and Groundwater Protection Levels to make the demonstration of "no further discharge:, and compliance with AWQS at the designated POC. The applicant may be required to establish and maintain engineering controls to make the demonstration of no further discharge. Tools such as a Declaration of Environmental Use Restriction (DEUR) may also be utilized for some closure activities.

If a demonstration cannot be made, then post-closure activities will be a part of the permit. Examples of common post-closure activities include but are not limited to groundwater or vadose zone monitoring, maintenance of engineering controls, or soil sampling.

Closure Costs and Strategies

Based on rule the applicant is required to estimate costs that are then used for financial capability. The closure costs are required to be based on a closure strategy or plan that is submitted with the



Example

application. The closure strategy should at a minimum provide an overview of what the applicant expects closure to consist of and also whether the applicant proposes to achieve clean closure or not. See pages 13-14.

The example Table of Contents below is provided to assist the applicant in preparing and submitting an adequate BADCT Demonstration.

Example Table of Contents - Individual BADCT Demonstration(1)

- 1. Introduction
- 2. Relevant Site Factors
 - 2.1 Solution and Waste Characteristics
 - 2.2 Site Characteristics
 - 2.2.1 Surface Hydrology
 - 2.2.2 Hydrogeology
 - 2.2.3 Geologic Hazards
- 3. Site Selection
 - 3.1 Alternatives
 - 3.2 Evaluation of Alternatives
 - 3.3 Recommended Site
- 4. Reference Design
 - 4.1 Design
 - 4.2 Construction Considerations
 - 4.3 Operations and Operational Monitoring
 - 4.4 Closure and Post-Closure Considerations
 - 4.5 Estimated Aquifer Loading
 - 4.5.1 Potential Release
 - 4.5.2 Estimated Travel Times to Groundwater Table
 - 4.5.3 Estimated Attenuation of Pollutants
 - 4.5.4 Estimated Aquifer Load
 - 4.6 Estimated Cost of Reference Design
- 5. Alternative Designs
 - 5.1 Selection of Alternatives
 - 5.2 Screening of Alternatives
 - 5.3 Description of Most Promising Alternative Systems
 - 5.4 Aquifer Loading of Most Promising Alternative Systems
 - 5.5 Estimated Cost of Most Promising Alternative Systems
- 6. Selection of BADCT Design
 - 6.1 Selection Criteria
 - 6.2 Evaluation of Reference Design and Alternative Systems
 - 6.3 Selected BADCT Design



Example Appendices:

- Discharge/Solution and Waste Characterization Data
- · Groundwater Quality Data
- Geologic Hazards Evaluation
- · Geotechnical Data to evaluate soil permeability and soil types
- Surface Water Evaluations
- Construction Procedures and QA/QC for Control and Treatment Technology
- Slope Stability Evaluations
- · Water Balance and Storage Capacity Evaluations

All applicable sections should clearly state the manner in which Individual BADCT requirements are satisfied by the proposed BADCT design.



J Preparing for A Pre-application Meeting

The purpose of this section is to describe what to bring to an Aquifer Protection Permit pre-application meeting. Although not mandatory, a Pre-application meeting is highly recommended: 1) it will facilitate a complete application, 2) may limit some of the requirements for a particular facility, and, 3) typically results in quicker processing times, which may lower your application fees and other costs.

Meeting Agenda

ADEQ has provided an example of a typical agenda that will be prepared jointly by ADEQ and the applicant, and will be presented at the beginning of the Pre-application meeting. The agenda is used for meeting facilitation. A pre-application meeting should include a sign in sheet for all persons attending the meeting. At the end of the meeting, it is helpful to summarize areas of agreement and identify areas that may require additional discussion or follow up between ADEQ and the permit applicant.

A pre-application meeting affords you as the permit applicant an early opportunity to meet with ADEQ to develop a mutual understanding of the APP program basic requirements, and identify specific requirements for your facility. This is also your opportunity to present your facility's operations and conceptual BADCT and discuss issues relevant to its permitting, such as possible requirements for discharge and groundwater monitoring, facility BADCT design, facility maintenance and operations and closure. With knowledge of your facility, ADEQ can help you focus on information that is needed to complete the APP process. For example, not every facility will need an extensive hydrologic study. Presenting the hydrogeologic setting at the pre-application meeting may allow you to focus efforts and obtain input from ADEQ that limits the amount of information that must be submitted in the application. An example is that sometimes groundwater monitoring is not required at facilities that discharge to double lined impoundments with leak collection and recovery systems and ADEQ may only require a limited hydrogeologic study to determine depth to groundwater and ambient groundwater quality.

ADEQ suggests that an applicant for an individual APP bring the following information and be prepared to discuss each item at the meeting:

- Location map such as a state road map, showing general location of the facility
- Topographic map showing location of the facility (7.5 min. USGS quadrangle map, if available. Map must show Township, Range, and Section)
- Site map showing all existing and planned features of the site, if known, and locations of existing water supply and monitor wells and borings (if present)
- Financial Demonstration Options
- BADCT Proposed (conceptual) or design features of discharge control measures and a
 description of how the facility will be designed, constructed and operated as to ensure the
 greatest degree of discharge reduction achievable



- Discharge characterization (from each discharging facility) including the expected design discharge rate and proposed routine discharge monitoring (if any) and expected chemical composition of the discharge or plans for discharge characterization
- Hydrogeologic information:
 - Ambient groundwater quality;
 - Groundwater depth and flow direction beneath the facility;
 - Rock and soil types in site vicinity of the facility;
 - Subsurface lithology driller's logs may be available from the Arizona Department of Water Resources (ADWR);
 - Wells, and their uses, within ½ mile radius of site (available from ADWR) (Identify nearest well to the site if no wells are within ½ mile);
 - Location of surface water bodies and ephemeral streams in the vicinity of the facility;
 - Existing Groundwater quality data beneath the facility or in the area using existing wells; and,
 - Proposed monitoring program and method for setting Alert Levels (ALs), Aquifer Quality Limits (AQLs) and use of indicator parameters for groundwater monitoring if appropriate given BADCT and discharge quality
 - Planned life of facility
 - Information on past land use
 - Previous facility discharges on the property (quantity and quality)
 - Other activities in the area that might have affected groundwater quality



Sample Pre-Application Meeting Agenda Aquifer Protection Permit Pre-Application Meeting

[facility name]
[date and time]
[meeting location/conference room]

- Introductions and Sign-in Sheet
- Purpose of meeting (ADEQ staff)
- Facility description (Applicant)
 - Location / background / history
 - Design/BADCT, operational details, expected life, etc.
 - ► Waste characterization
 - Overview of Existing hydrologic / geologic information Project Setting
- Discussion of essential elements of an APP application (ADEQ staff)
 - Baseline analytical requirements (waste and groundwater)
 - Compliance with Aquifer Water QualityStandards
 - Establishing a point of compliance
 - ► BADCT demonstration
 - Hydrogeologic information
 - Alert levels
 - Discharge limitations

- Monitoring requirements
- Contingency plans
- Compliance schedules
- Temporary closure plans
- Closure plans
- Technical capability demonstration
- ► Financial demonstration
- ► Environmental enforcement actions
- ➤ Zoning
- Coordination with other programs (i.e AZPDES)
- Obligations of the Applicant & ADEQ under Licensing Time Frames (LTF)
 - The application process and its time frames
 - ▶ Points in the LTF process where automatic notices are generated
 - ► The Pre-application agreement
 - ► Discussion of other LTF agreements (as necessary and appropriate)
- Opportunity for scope of work / proposal for site investigations or other aspects of the project
- Determine application schedule application submittal date and goal for permit issuance

Exhibit A

Legal Description for Interim WWTP Property

9

LEGAL DESCRIPTION OF: INTERIM .24 WWTP

A PORTION OF THE NORTHEAST QUARTER (NE1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION 9, TOWNSHIP 20 NORTH, RANGE 18 WEST, OF THE GILA AND SALT RIVER BASE MERIDIAN, MOHAVE COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHEAST QUARTER:

THENCE NORTH 89°39'46" WEST, ALONG THE NORTHERLY LINE OF SAID SECTION, 803.58 FEET;

THENCE DEPARTING SAID NORTHERLY LINE, SOUTH 0 °00'00" EAST, 47.65 FEET TO THE **POINT OF BEGINNING**;

THENCE SOUTH 65° 16' 48" EAST, 301.25 FEET TO THE BEGINNING OF A NON-TANGENTIAL CURVE,

SAID CURVE TURNING TO THE RIGHT THROUGH 10° 28' 17", HAVING A RADIUS OF 1398.00 FEET, AND WHOSE LONG CHORD BEARS SOUTH 14° 52' 47" WEST FOR A DISTANCE OF 255.14 FEET TO THE BEGINNING OF A NON-TANGENTIAL CURVE, SAID CURVE TURNING TO THE RIGHT THROUGH AN ANGLE OF 94° 36' 17", HAVING A RADIUS OF 45.00 FEET, AND WHOSE LONG CHORD BEARS SOUTH 67° 25' 04" WEST FOR A DISTANCE OF 66.14 FEET TO A POINT OF INTERSECTION WITH A NON-TANGENTIAL LINE.

THENCE NORTH 65° 16' 48" WEST, 300.00 FEET;

THENCE NORTH 24° 43' 12" EAST, 300.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 98,540 SQUARE FEET MORE OR LESS.

BASIS OF BEARINGS:

NORTH 00°13'38" EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW1/4) OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 18 WEST, GILA AND SALT RIVER BASE MERIDIAN, MOHAVE COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA COORDINATE SYSTEM OF 1983 (AZ83-WIF), WEST ZONE, INTERNATIONAL FOOT (IFT), UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGS-OPUS.

M.C.S.D. "SD 32" = LATITUDE $35\,\%09'22.70034$ "N,

LONGITUDE 114 °09'21.57240"W (NAD '83)

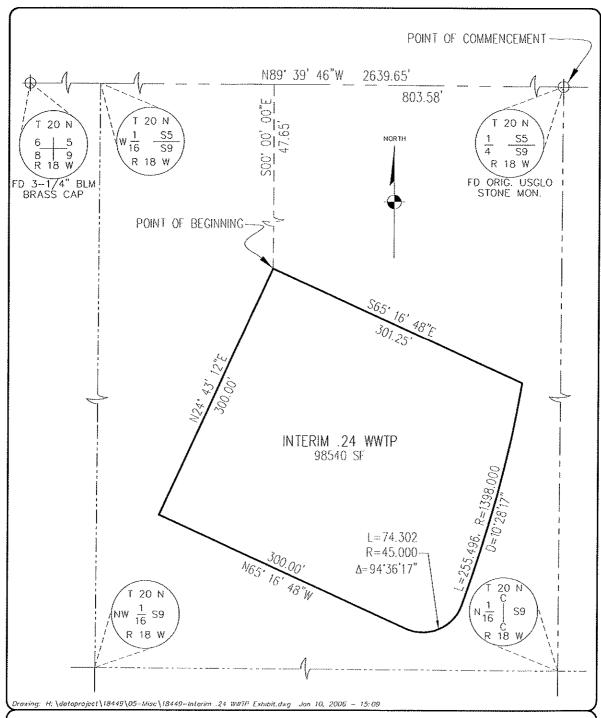
HEIGHT 2562.46391 IFT (NAVD '88)

STONE 1/4 COR 3/2 = LATITUDE 35 %8'55.53385"N,

LONGITUDE 114°10'30.72281"W (NAD '83)

HEIGHT 2498.20458 IFT (NAVD '88)

END OF DESCRIPTION.





5820 S. Eastern Avenue Suite 200 Las Vegas, Nevada 89119

Las Vegas, Nevoda 89119 (702) 369-9396 Fox (702) 369-9793 www.stanleygroup.com

Stanley Consultants INC.

INTERIM .24 WWTP EXHIBIT

A PORTION OF THE NE1/4, NW1/4, SEC. 9 T2ON, R18W, G&SR BASE MERIDIAN, MOHAVE COUNTY, AZ SCALE: 1"=100'
PROJ. No.: 18449
DRAWN BY: TLK
CHECKED BY: TLK
DATE: 01/10/06
SHEET 1 of 1

Exhibit B

Zoning Map

EXHIBIT B – ZONING REQUIREMENTS

Section 27-A of the Mohave County Code (attached herein) states that "The following uses may be permitted in zones in which they are not specifically permitted by this ordinance, where such uses are deemed essential or desirable to the public convenience or welfare...". Section 27-A-1 lists "public utility facilities" as an acceptable use under this provision. The section also stipulates that the site "shall be processed as a zoning use permit."

Stanley's interpretation of this provision indicates that the GV Ranch Interim WWTP site falls under this category of Special Use. The site is currently zoned A-R, but will be rezoned for MDR upon submission of the zoning application. To apply for the zoning application, approval of the 208 Plan amendment is required. On behalf of Rhodes, Stanley is preparing the zoning application and will submit it as soon as the 208 Plan amendment has been approved. In the meantime, it is our understanding that by rule a wastewater treatment facility can be placed on this parcel as zoned.

Section 27 GENERAL PROVISIONS

27 GENERAL PROVISIONS

Special Uses The following uses may be permitted in zones in which they are not specifically permitted by this Ordinance, where such uses are deemed essential or desirable to the public convenience or welfare, and are in harmony with the various elements or objectives of the General Plan.

In each instance, the matter shall be processed as a Zoning Use Permit.

Airports or aircraft landing fields, public or private institutions, public utility facilities, and communications installations, and public and private sanitary landfills.

Cemeteries, columbatiums, crematories and mausoleums

Establishments of temporary or permanent enterprises involving large assemblaces of the permanent enterprises in the pessuited by this Ordinance, where such uses are deemed essential or desirable to the public convenience or welfare, and are in harmony with the various elements or objectives of the Special Uses General Plan

In each instance, the matter shall be processed as a Zoning Use Permit.

- Establishments of temporary or permanent enterprises involving large assemblages of people or automobiles, including amusement parks, circuses, fairgrounds, open-air theaters, tace tracks, and recreational centers
- Layout and construction of model homes and their use as sales office in an approved subdivision prior to Final Plat Recordation
- General Commercial uses that are permitted without a Zoning Use Permit for the older mining communities of Oatman and Chloride when the General Commercial Uses will support tourist activities and are within established commercial areas.

Building Sites.

Ω

- Any lot or parcel of land under one (1) ownership and of record and where no contiguous land is owned, or was owned by the same person on the effective date of this Ordinance, may be used as a building site, even when of less area or width than that required by the regulations for the zone in which it is located, but each building site must meet any requirements for the County Department and Ordinances as regards sanitation needs
- Any water tower or other structure, where a large weight would be supported supports, legs, or structural walls, shall be so located that, if it should collapse, reclining length would still be contained on the property on which it was constructed
- If more than one (1) lot, a portion of a lot, or portions of lots are used as a building site, setbacks will be considered for the combined area as a "lot" for the use approved thereon as long as it qualifies as a building site.
- Only one (1) single family dwelling may be established on any one- (1) lot or building site. Iwo (2) or more mobile or manufactured homes that were manufactured as separate single family dwellings shall not be permitted as one (1) single family manufactured to be transported in sections and connected on site shall be permitted as a residence regardless of modifications proposed single-family dwelling.
- restrictions imposed by the various zoning classifications provided that the windmill is located on the property in a manner so that if the structure should section collapse, the reclining length of the windmill would still be contained on the property on which it Windmills, which are not in conjunction with agricultural uses, may exceed the height

AppI

Mohave County Planning and Zoning Commission PO Box 7000 Kingman Arizona 86402-7000

APPLICATION FOR A REZONE

Dear Sir:					
I(We) RHODES rezoning of:	HOMES	ARIZON	sa	hereby request th	ne
(leg Assessor's Parcel Numbe From: A-R (Current Zoning)	al description of r (APN) <u>215</u> –	f subject property 16-005 Proposed to (Proposed 2	y) 215-01-0 be: <u>50</u> - Coning)) 75 PAID	
For the purpose of: A 5 and request that the Board by the Planning and Zonir	Propos) I of Supervisors	ed use of Proper	tv) De	KELODNENIT .	<i>ちて</i> れいつみんつら
Present use of property: Owner: (proof required*) Owner: (address) 6(0) Phone: Property owner concurs:	Gal	ls Sal		A-R SOUTH DAKOT FALLS, SD	<u>1</u> LLC 51708
SUBMIT TEN (10) CO TEN (10) COPIES OF (10 BE FILLED IN IF OV	PIES OF 8 1/ THIS FORM		LAN AND DE	RAWING WITH	
Applicant's interest in the			•		
Applicant: Ruones					
Address: ATTENTION					
City: KINGMAN					
*ONE (1) PROOF OF OW Deed is not acceptable	NERSHIP: Reco	orded Warranty o	n Joint Tenancy	Deed; a Quit Claim	
Date submittedFee		Received by: Receipt No :			
I en (10) Copies Received: Application:			Sketch:		
SARALYN R Notary Pub	OSENLUND lic - Nevada				

No 02-76733-1 My Appt Exp July 11, 2006

Appa

Mohave County Planning and Zoning Commission P.O Box 7000 Kingman Arizona 86402-7000

APPLICATION FOR A REZONE

Dear Sir:			
I (We) RHODES 1- rezoning of:	IOMES	ARIZONA	hereby request the
(legal of Assessor's Parcel Number (AFrom: A-IR (Current Zoning)	JLC, N.D.	subject property) - () i - () 93 ANI Proposed to be: 5 () (Proposed Zoning)	215-01-010 PAD
For the purpose of: A SING and request that the Board of by the Planning and Zoning (Supervisors.	ed use of Property)	COMPLUNITY WITH UNIQUE DEVELOPHENT STANDARDS earing following evaluation
Present use of property: V Owner: (proof required*)AM Owner: (address) G(O) 5 Phone: Property owner concurs: 2	Mailes	Zonin AND HANBGEMENT L NE CIRCLE, SIC Signature Required)	B A-R LC, DOUTH DAKOTA LLC DUX FALLS, SD 51708
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Applicant's interest in the prop	erty DE	IC.LOPER	
Applicant: RHODES HO	umes A	z clo STAN	LEY CONSULTANTS
			TOCKTON HILL ROAD #3
city: <u>KINGMAN</u>	State:	AZ Zip 86401	Phone: (702) 765-6542
*ONE (1) PROOF OF OWNER Deed is not acceptable.	RSHIP: Reco	rded Warranty or Joint Tex	ancy Deed; a Quit Claim
Date submittedee	R	Leceived by:eceipt No :	
en (10) Copies Received:		occipi ivo	



SARALYN ROSENLUND Notary Public - Nevada No 02-76733-1

No 02-76/33-1 My Appr Exp July 11, 2006

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Area Topographic and Hydrogeologic Data Map



January 36, 2006

Ms. Sujana Attaluri Arizona Department of Environmental Quality 1110 W. Washington Street Phoenix, Az. 85007

Re: Golden Valley Ranch Interim WWTP

APP Application - Verification of Adjacent Parcel Development Status

Dear Ms. Attaluri:

Per Section R18-9-A202-A2 of the Arizona Administrative Code as pertains to the Aquifer Protection Permit, ADEQ must be notified of the development status of any parcel of land adjacent to a wastewater treatment plant (WWTP). This letter will serve to provide you with this status.

The parcel of land chosen for the Golden Valley Ranch Interim WWTP (GVR Interim WWTP) is located at the northwest corner of Hualapai Road and Road A, which is outside of the limits of the Phase 1 development of Golden Valley Ranch. This parcel has not been dedicated or platted for a specific use at this point in time. The current land use plan indicates that a park will be placed on this parcel and that the park will extend beyond the limits of the GVR Interim WWTP.

Rhodes Homes hereby commits that the park property, inclusive of the GVR Interim WWTP, will not be developed as such until the GVR Interim WWTP has been decommissioned and removed from the site. Once this has occurred, any land ownership rights afforded the GVR interim WWTP will be returned to the owner of the park property.

Properties adjacent to the park on all sides, save for the southeast corner, are scheduled for residential development. All residential parcels adjacent to the park are scheduled for development after the plant is to be decommissioned and removed from service. Rhodes Homes hereby commits to maintaining ownership of these parcels until the GVR interim WWTP is decommissioned and removed from the site.

The property southeast of the GVR Interim WWTP is occupied by the community's golf course. There are no specific restrictions on the use of the property even if it is adjacent to a WWTP, so development of the golf course will continue during the useful life of the WWTP. In fact, the golf course is a vital element of the WWTP, as the WWTP effluent will be used to help water the golf course.

If you have any questions, please call me at 928-718-2210. Thank you for your attention.

Sincerely,

Kirk Brynjulson

Exhibit D

Facility Site Plan

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Design Report

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Golden Valley Ranch

Design Report 0.24 MGD Interim Wastewater Treatment Plant

Rhodes Homes Arizona, Inc. Kingman, Arizona

January 12, 2006



A Stanley Group Company Engineering, Environmental and Construction Services - Worldwide

Respectfully sub	omitted,
Stanley Consulta	ants, Inc.
Prepared for	Rhodes Homes Arizona, Inc.
Prepared by	Actiones Perizona, III.
A	Stanley Consultants, Inc
Approved by	Mohave County - Environmental Services Department
Approved by	Arizona Department of Environmental Quality

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Executive Summary

Golden Valley Ranch is a master planned development by Rhodes Homes Arizona (Rhodes) located in Golden Valley, Arizona approximately 5 miles west of Kingman. The development is not adjacent to, or integral with, any wastewater service areas at this time. Full wastewater collection and treatment to Class A+ standards are required to meet the development objectives of reusing the wastewater for golf course irrigation, with secondary discharge to Thirteen Mile Wash.

To achieve this objective, Rhodes has retained Stanley Consultants to prepare a design report for the wastewater treatment plant (WWTP). The report reviews the background of the development, provides an overview of wastewater treatment in general, and then defines the specifics of treatment for Golden Valley Ranch. The Design Report recommends the following interim treatment plant process:

- 1. Influent pump station, with flow coming from a diversion manhole in the public right-ofway such that when the interim plant is taken out of service, the flow can be diverted away from the interim plant and towards the permanent plant.
- 2. Mechanical screen with manual screen bypass.
- 3. Grit removal.
- 4. Biological treatment basins.
- 5. Membrane bioreactor basin.
- 6. UV disinfection.
- 7. Discharge to golf course lake, with AZPDES discharge location when golf course lake is at capacity.
- 8. Solids handling via truck transport to landfill.
- 9. No odor control (WWTP located outside of 500' buffer zone).
- 10. Autodialer communications, with alarms sent to emergency response operator and limited remote control (pump on/off, blower on/off) possible.
- 11. Backup power generator.

Section 1

Introduction

1.1 Project Background

Golden Valley Ranch is a mixed use, master planned development located on approximately 9 square miles of property in Golden Valley, Arizona, west of Kingman (see Figure 1.1). To date, development in Golden Valley has zoning restricted to 1 house per acre with a commercial strip along Arizona State Route 68; thus, sewer treatment in the area consists of on-site septic systems, with no centralized collection and treatment system in place. The planned housing densities of Golden Valley Ranch mandate that a sewage collection and treatment system be constructed to meet the needs of the development. In an effort to meet this need while expediting the pace of the development, Rhodes Homes Arizona is proposing to construct an interim wastewater treatment plant (WWTP) to service the first phase of development (800 residential units). By the time these units are constructed, Rhodes will have a permanent WWTP constructed and ready for operation. The permanent WWTP will be at a different location from the interim WWTP, so the interim WWTP is being constructed in such a way that all components possible can be removed from service and relocated to another site. Both plants will provide A+ quality wastewater effluent.

Rhodes Homes has indicated that this development will be a "destination development", including amenities such as a golf course, parks and open space, and sufficient commercial development to make the development a "live, shop and play" development. This dynamic works into the wastewater reuse plan for the development, as Rhodes Homes has determined that the effluent from both the temporary and permanent WWTPs will be used to water the golf course.

1.2 Local Area Conditions

The site consists of approximately 5,760 acres of undeveloped land located approximately 5 miles west of the western border of the City of Kingman, in Mohave County, Arizona (Figure 1.1). Table 1.1 (pg. 3) gives a description of the parcels.